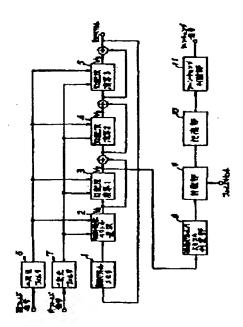|		
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APPLICANT	:	NIPPON HOSO KYOKAI <NHK>;
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TITLE	:	SCENE CHANGE DETECTING METHOD

ABSTRACT : PURPOSE: To improve the certainty of the scene change of a television picture by using an iterated multiple gradient method using an initial displacement vector, and evaluating the number of the small blocks of a screen where the dimensions of the displacement vector found by first gradient method arithmetic operation is over the first threshold value in order to judge the scene change.

CONSTITUTION: Dimensions of displacement vector judging part 8 judges whether the dimensions of displacement vector V_1 found by the first gradient method is over the preliminarily estimated first threshold value by using a motion vector detecting method of the iterated multiple gradient method. Then, the number of the small blocks where the dimensions of the displacement vector is over the first threshold value is counted by a counting part 9, and the value is temporarily stored in a storage part 10. Then, when the counted and stored number for one field or one frame is over the preliminarily set second threshold value, an output signal indicating the presence of the scene change is outputted by a scene change judging part 11. This second threshold value is displayed also as the certain rate of the total number of the small blocks of one screen.